

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: STREETWORKS

Report Number: P285757

Luminaire Tested: **USSL-XL-C04-D-U-T2-AP-7050**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P285757  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1902-125-5)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: USSL-XL-C04-D-U-T2-AP-7050  
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 5000K LEDS AND TYPE II OPTICS, GRAY PAINTED FINISH  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 39392.2 lumens  
Efficiency: N/A  
Efficacy: 149.2 lumens/watt  
Luminous Opening: Rectangular (W 1.29' x L: 1.79' x H: 0')  
IES Classification: Type II - Short - Non-Cutoff  
BUG Rating: B4 - U0 - G4

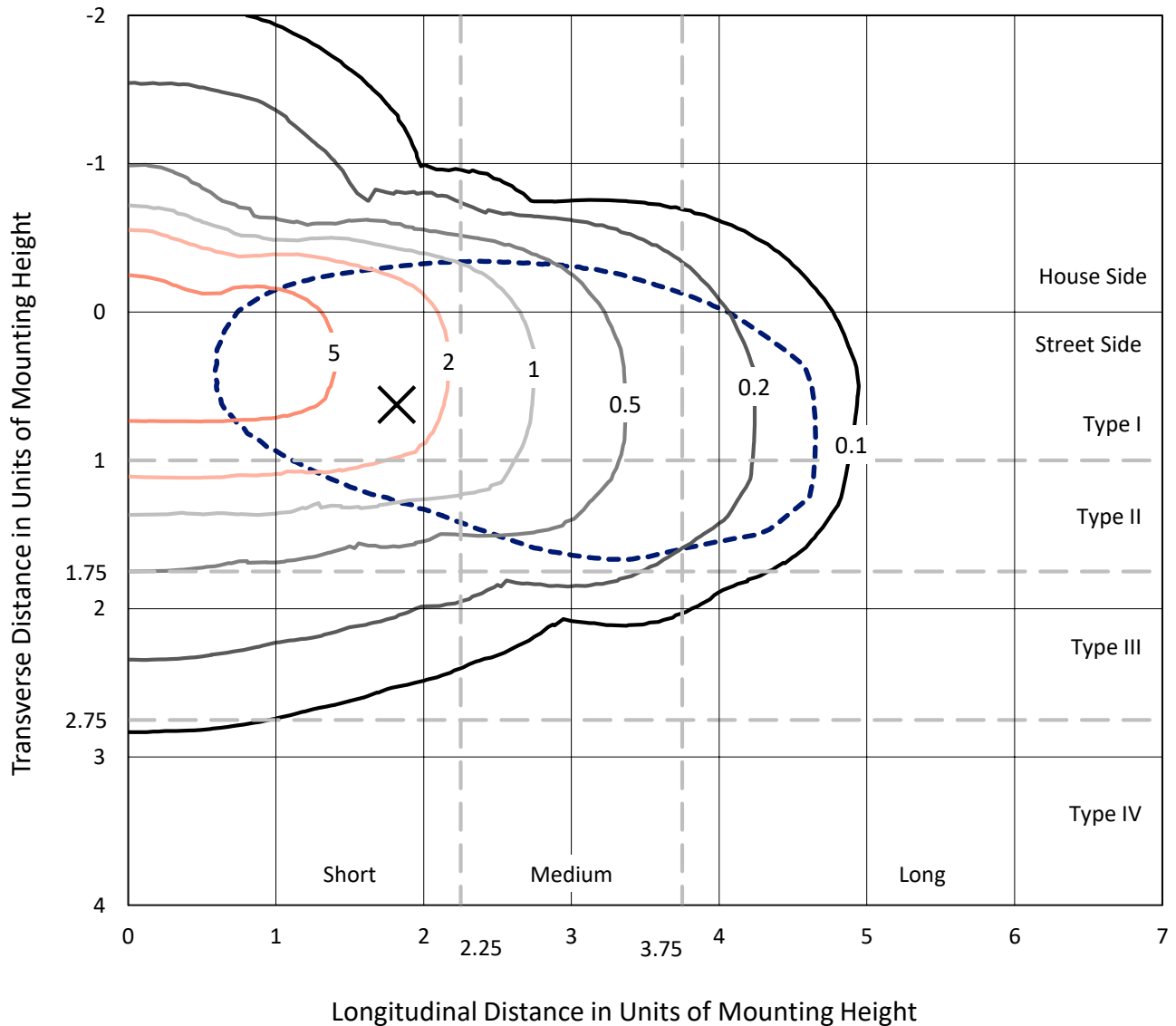
Input Watts (W): 264  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

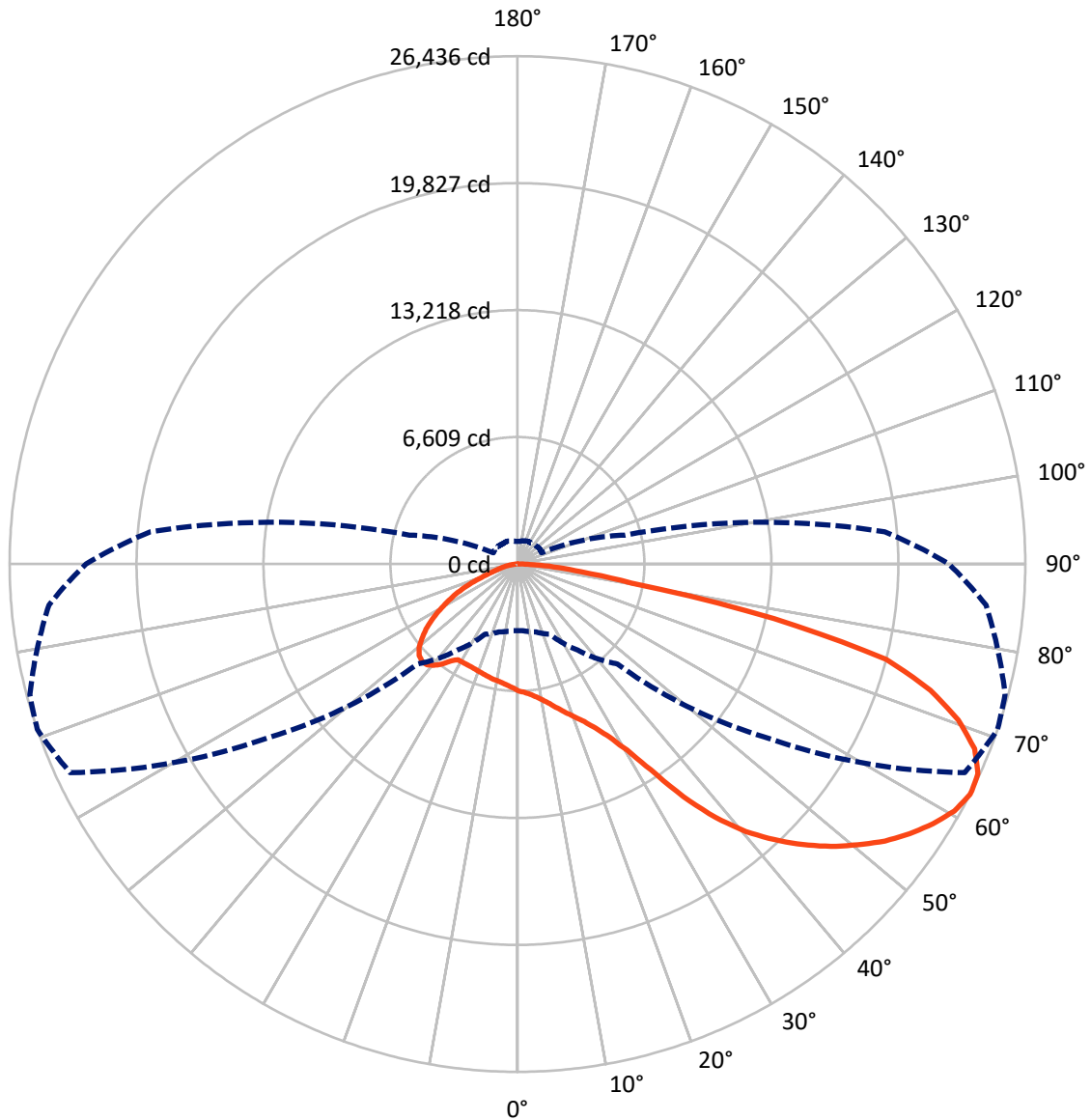
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.2 fc  
 Type II - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral      - - - Horizontal Cone Through 62.5-Deg Vertical

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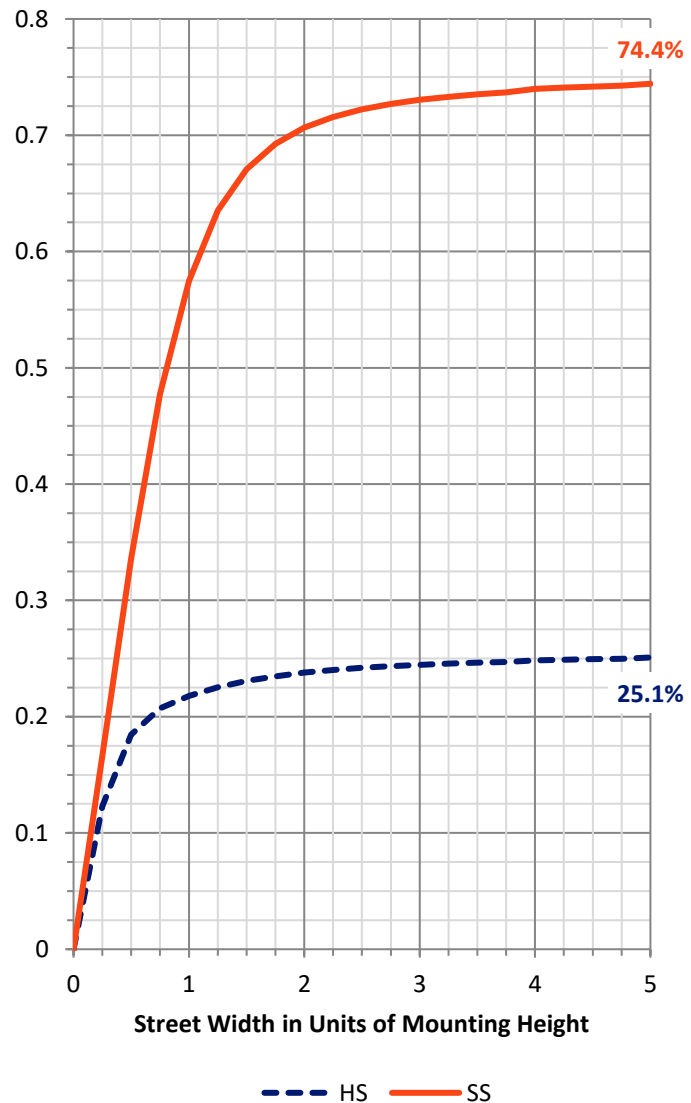
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10059.7	0.0	10059.7
	% Fixture	25.5	0.0	25.5
<b>Street Side</b>	Lumens	29332.6	0.0	29332.6
	% Fixture	74.5	0.0	74.5
<b>Total</b>	Lumens	39392.2	0.0	39392.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	636.3	1.6
10°-20°	1947.3	4.9
20°-30°	3301.1	8.4
30°-40°	4975.5	12.6
40°-50°	6835.3	17.4
50°-60°	7946.7	20.2
60°-70°	7841.2	19.9
70°-80°	5013.8	12.7
80°-90°	895.0	2.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	39392.2	100.0
0°-180°	39392.2	100.0



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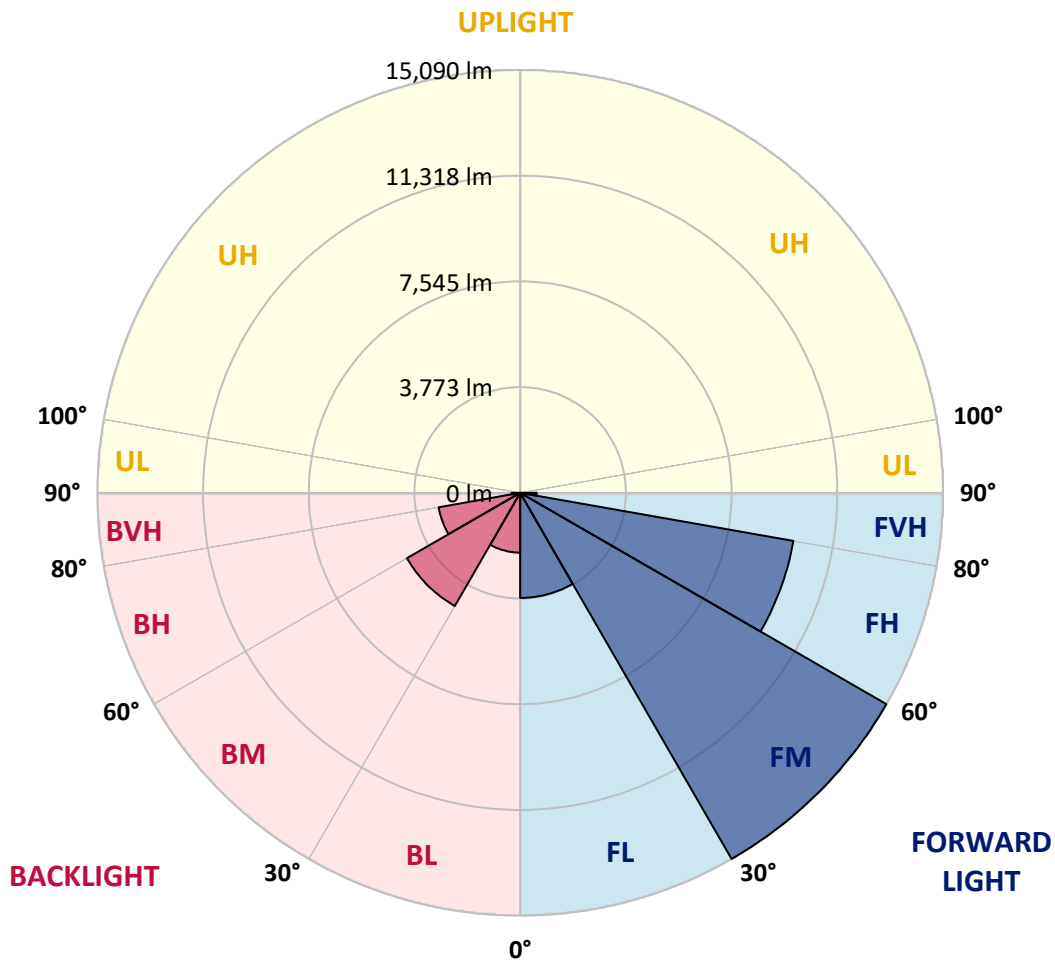
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3749.2	9.5			
FM	(30°-60°)	15090.5	38.3			
FH	(60°-80°)	9901.5	25.1			G4/12000
FVH	(80°-90°)	591.4	1.5			G4/750
BL	(0°-30°)	2135.5	5.4	B3/2500		
BM	(30°-60°)	4667.1	11.8	B3/5000		
BH	(60°-80°)	2953.5	7.5	B4/5000		G4/5000
BVH	(80°-90°)	303.6	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	6604.1	6604.1	6604.1	6604.1	6604.1	6604.1	6604.1	6604.1	6604.1	6604.1	6604.1
2.5°	7040.6	7027.1	7010.6	6982.1	6949.1	6910.1	6869.6	6778.2	6683.6	6653.6	6589.2
5°	7427.6	7402.1	7381.1	7354.1	7291.1	7211.6	7105.1	6955.2	6808.2	6761.6	6628.2
7.5°	7769.6	7741.1	7703.6	7667.5	7598.6	7496.6	7352.6	7162.1	6985.2	6904.1	6686.6
10°	8074.1	8047.1	8027.6	7987.1	7931.5	7808.6	7637.5	7399.1	7193.6	7081.1	6779.7
12.5°	8411.6	8389.0	8348.5	8302.1	8228.5	8110.0	7939.1	7679.6	7460.6	7324.1	6922.1
15°	8755.0	8740.0	8668.1	8641.0	8558.5	8422.1	8270.5	8003.5	7780.1	7610.6	7126.1
17.5°	9059.5	9049.0	9004.0	8972.5	8905.0	8752.0	8596.0	8351.6	8123.6	7907.6	7352.6
20°	9254.5	9269.5	9260.5	9254.5	9250.0	9124.0	8969.5	8717.6	8488.0	8273.6	7595.6
22.5°	9436.0	9442.0	9466.0	9521.5	9601.0	9545.5	9378.9	9146.5	8912.5	8656.0	7910.6
25°	9493.0	9497.4	9590.5	9758.5	9981.9	10006.0	9869.5	9713.5	9458.4	9206.5	8342.6
27.5°	9539.5	9551.5	9668.5	9962.4	10355.4	10469.5	10420.0	10368.9	10188.9	9925.0	8923.0
30°	9526.0	9529.0	9722.5	10100.4	10652.4	10959.9	11034.9	11280.8	11235.9	11055.9	9894.9
32.5°	9278.5	9256.0	9536.5	10103.5	10884.9	11451.9	11798.4	12498.8	12764.3	12812.3	11838.9
35°	8774.5	8774.5	9194.5	9986.5	11052.8	11937.9	12668.3	13980.7	14876.2	14900.2	13686.7
37.5°	8354.6	8381.6	8852.5	9767.5	11130.9	12431.4	13665.7	15792.6	16737.6	16656.5	15230.1
40°	7936.1	7969.1	8452.1	9468.9	11084.4	12857.3	14633.2	17520.6	18306.5	18120.5	16545.6
42.5°	7472.6	7498.1	7951.1	9044.6	10923.9	13167.8	15672.6	18995.0	19620.4	19393.9	17745.5
45°	7009.1	7052.6	7460.6	8474.5	10610.4	13353.8	16563.6	20332.9	20839.9	20578.9	18837.5
47.5°	6326.6	6494.6	6970.1	7912.0	10041.9	13340.2	17354.1	21534.3	21964.8	21687.4	19821.4
50°	4939.2	5038.2	6086.7	7402.1	9292.0	13071.7	17978.0	22606.7	22975.8	22729.8	20815.9
52.5°	4486.2	4513.3	4852.2	6776.7	8461.1	12540.8	18440.0	23598.2	23958.2	23676.3	21715.9
55°	4253.8	4268.7	4435.3	5540.7	7756.0	11562.9	18650.0	24514.6	24786.2	24468.2	22477.7
57.5°	3937.3	3983.7	4216.3	4723.2	7034.7	10179.9	18378.5	25234.6	25506.1	25161.2	23206.7
60°	3703.3	3731.8	3931.3	4324.3	6199.1	8563.0	17439.6	25755.1	26121.0	25803.1	23883.2
62.5°	3472.3	3488.8	3656.8	4034.8	5480.7	7360.1	15686.1	25695.0	26436.0	26277.0	24483.2
63°	3424.3	3439.3	3607.3	3982.3	5374.2	7114.2	15317.1	25620.1	26436.0	26325.1	24558.2
65°	3211.3	3229.3	3395.8	3737.8	4928.7	6496.1	13670.3	25153.7	26341.6	26394.1	24664.6
67.5°	2894.8	2924.8	3062.8	3361.4	4259.7	5743.2	11226.9	24666.2	25663.6	25776.1	24075.2
70°	2521.4	2527.3	2693.8	2944.3	3590.8	4885.2	8654.5	23187.2	24339.1	24388.6	22696.8
72.5°	2123.9	2140.4	2290.3	2501.9	2978.8	4045.3	6187.2	20443.9	22488.3	22767.3	20388.3
75°	1853.9	1867.4	1993.4	2141.8	2473.4	3188.8	4138.3	14907.7	19826.0	20136.4	17636.0
77.5°	1552.4	1561.4	1693.4	1795.4	2009.9	2405.9	2857.4	7865.5	13655.2	15308.1	13778.3
80°	1105.5	1107.0	1238.9	1318.4	1456.4	1478.9	1816.4	4186.3	6008.7	7765.0	9106.0
82.5°	240.0	345.0	518.9	652.5	730.5	615.0	893.9	2293.4	3319.3	3962.8	4936.3
85°	103.4	142.5	274.5	301.4	201.0	221.9	363.0	1222.4	1897.4	2258.9	2540.9
87.5°	19.5	25.5	70.5	94.5	58.5	61.5	73.5	391.5	664.5	780.0	870.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6604.1	6604.1	6604.1	6604.1	6604.1	6604.1	6604.1	6604.1	6604.1	6604.1	6604.1
2.5°	6550.2	6532.2	6472.2	6431.7	6406.1	6373.2	6331.2	6275.7	6259.1	6220.1	6251.6
5°	6554.6	6506.6	6380.7	6289.1	6206.7	6134.7	6050.7	5971.2	5941.2	5888.7	5909.7
7.5°	6575.6	6494.6	6299.6	6160.1	6037.2	5939.7	5822.7	5725.2	5690.7	5630.7	5641.2
10°	6631.2	6505.1	6236.7	6067.2	5897.7	5755.2	5618.7	5485.2	5425.2	5372.7	5398.2
12.5°	6728.7	6544.1	6208.2	5990.7	5765.6	5591.7	5392.2	5221.2	5137.2	5069.7	5092.2
15°	6875.7	6619.2	6175.2	5881.2	5609.7	5383.2	5138.7	4922.7	4828.3	4775.7	4801.2
17.5°	7025.7	6728.7	6155.7	5747.7	5422.2	5128.2	4892.7	4688.8	4516.2	4477.2	4492.3
20°	7202.7	6841.1	6170.6	5606.7	5201.7	4853.7	4574.7	4438.2	4214.8	4136.8	4141.2
22.5°	7436.6	7016.6	6184.2	5468.7	4939.2	4550.8	4225.3	4090.3	3875.7	3737.8	3743.8
25°	7772.6	7234.1	6215.7	5341.3	4681.3	4217.8	3841.3	3616.3	3482.8	3307.3	3308.8
27.5°	8233.1	7532.6	6278.6	5221.2	4406.7	3835.2	3374.8	3122.8	3005.9	2890.3	2875.3
30°	9019.0	8026.1	6371.7	5089.2	4081.3	3373.3	2882.8	2662.4	2563.4	2468.8	2458.3
32.5°	10678.0	9224.5	6500.7	4922.7	3730.3	2848.4	2447.8	2273.9	2134.4	2041.4	2054.9
35°	12380.4	10725.9	7046.6	4724.7	3334.3	2389.3	2120.9	1904.9	1726.4	1654.4	1659.0
37.5°	13838.3	12086.4	7867.1	4510.3	2896.4	2093.9	1792.4	1583.9	1441.5	1405.4	1450.5
40°	15051.6	13203.8	8525.5	4283.8	2435.9	1844.9	1461.0	1346.9	1255.5	1245.0	1285.4
42.5°	16199.1	14213.3	9079.0	4022.7	2006.9	1523.9	1213.5	1240.4	1226.9	1225.5	1231.4
45°	17241.6	15149.2	9388.0	3634.3	1703.9	1247.9	1146.0	1247.9	1270.4	1267.4	1250.9
47.5°	18191.0	16004.2	9597.9	3071.8	1442.9	1169.9	1183.5	1252.5	1294.5	1302.0	1284.0
50°	19176.5	16839.6	9631.0	2390.9	1339.4	1231.4	1216.4	1207.4	1284.0	1282.5	1284.0
52.5°	20056.9	17556.5	9270.9	1858.4	1393.5	1295.9	1243.5	1190.9	1234.5	1235.9	1206.0
55°	20719.9	18144.5	8654.5	1629.0	1438.4	1349.9	1321.4	1216.4	1189.4	1171.4	1181.9
57.5°	21403.8	18669.5	7817.6	1525.4	1452.0	1362.0	1390.4	1222.4	1181.9	1099.4	1093.4
60°	22062.3	19094.0	6826.2	1456.4	1435.4	1355.9	1346.9	1268.9	1190.9	1068.0	1026.0
62.5°	22462.8	19186.9	5812.2	1388.9	1403.9	1346.9	1298.9	1303.5	1249.4	1181.9	1172.9
63°	22509.3	19155.5	5618.7	1372.5	1396.4	1345.4	1298.9	1306.4	1249.4	1208.9	1210.4
65°	22450.8	18789.5	4859.7	1302.0	1369.4	1321.4	1279.4	1241.9	1148.9	1174.5	1204.5
67.5°	21793.8	17592.5	3736.3	1187.9	1309.4	1282.5	1220.9	1127.9	1043.9	1027.5	1045.5
70°	20019.4	15632.1	2647.3	1012.4	1201.4	1233.0	1206.0	1066.5	982.4	967.5	1003.4
72.5°	17556.5	13572.8	1817.9	810.0	1006.5	1147.4	1139.9	1027.5	952.4	909.0	927.0
75°	14778.7	10947.9	1270.4	682.5	775.4	1033.4	1081.4	994.4	937.5	897.0	891.0
77.5°	11378.3	8269.0	999.0	583.5	640.5	837.0	994.4	987.0	1057.5	1247.9	1206.0
80°	7751.6	5498.7	720.0	438.0	510.0	586.4	856.5	1018.5	1337.9	785.9	771.0
82.5°	4505.7	3230.8	449.9	290.9	304.5	398.9	536.9	1075.5	895.4	354.0	447.0
85°	2176.4	1406.9	225.0	201.0	139.5	150.0	249.0	1001.9	634.5	157.5	31.5
87.5°	694.4	342.0	24.0	18.0	21.0	30.0	118.5	612.0	373.5	135.0	19.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)